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SILANE COATINGS FOR BONDING RUBBER TO METALS

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Related Applications

The present application is a Divisional of U.S. Application Serial No.
10/163,033 filed June 5, 2002, which is a Divisional of U.S. Application Serial No.
09/356,912 filed July 19, 1999. The entire disclosures of which are hereby
5 incorporated by reference.

BACKGROUND OF THE INVENTION

Field of the Invention

The present invention relates to silane coatings for metals. More particularly,
the present invention provides silane coatings which not only provide improved
10 adhesion to rubber and other polymers, but also provide corrosion protection (with or
without a polymer layer).

Description of Related Art

Most metals are susceptible to corrosion, including the formation of various
types of rust. Such corrosion will significantly affect the quality of such metals, as
15 well as that of the products produced therefrom. Although rust and the like may often
be removed, such steps are costly and may further diminish the strength of the metal.
In addition, when polymer coatings such as paints, adhesives or rubbers are applied to
the metals, corrosion may cause a loss of adhesion between the polymer coating and
the metal.